

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 8 (canceled)

9. (currently amended) An analysis and/or measuring device comprising means for extracting, in the gaseous form, hydrocarbons contained in a liquid drilling fluid after drilling in a reservoir rock, means for transporting said extracted gases, and means intended for analysis and measurement on these extracted gases, characterized in that said transport means include a tubular line comprising an inner tube which limits retention of trace hydrocarbons made from at least one plastic selected from the group consisting of PTFE (polytetrafluoroethylene), FEP (tetrafluoroethylene-perfluoroprene copolymer), PVDF (polyvinylidene fluoride), ETFE (tetrafluoroethylene-ethylene copolymer), ETFCE (ethylene-trifluorochlorethylene copolymer), PCTFE (polychlorotrifluoroethylene), FPA (perfluoroalkoxyalkane), hexafluoropropylene/vinylidene fluoride copolymers, hexafluoropropylene/vinylidene fluoride/tetrafluoropropylene THV terpolymers, tetrafluoroethylene/hexafluoropropylene/treated vinylidene fluoride, PEEK (polyetherether ketone), PEKK, PAEK, PEK, and aliphatic polyketones.

10. (previously presented) A device as claimed in claim 9, wherein said inner tube is externally protected by at least one other sheath.

11. (previously presented) A device as claimed in claim 9, wherein the thickness of the inner tube ranges between 0.1 and 5 mm.

12. (previously presented) A device as claimed in claim 9, wherein the thickness of the inner tube ranges between 0.1 and 0.2 mm.

13. (previously presented) A device as claimed in claim 9, wherein the inside diameter of the inner tube ranges between 3 and 12 mm.

14. (previously presented) A device as claimed in claim 9, wherein the inside diameter of the inner tube ranges between 6 and 10 mm.

15. (previously presented) A device as claimed in claim 9, wherein said tubular line is several ten meters long.

16. (previously presented) A method for analysis and/or measuring comprising: extracting, in the gaseous form, hydrocarbons contained in a liquid drilling fluid after drilling in a reservoir rock, transporting said extracted gases, and analyzing or measuring the extracted gases, wherein the extracted gases are transported in a tubular line comprising an inner tube which limits retention of trace hydrocarbons made from at least one plastic selected from the group consisting of PTFE (polytetrafluoroethylene), FEP (tetrafluoroethylene-perfluoroprene copolymer), PVDF (polyvinylidene fluoride), ETFE (tetrafluoroethylene-ethylene copolymer), ETFCE (ethylene-trifluorochlorethylene copolymer), PCTFE (polychlorotrifluoroethylene), FPA (perfluoroalkoxyalkane), hexafluoropropylene/vinylidene fluoride copolymers,

hexafluoropropylene/vinylidene fluoride/tetrafluoropropylene THV terpolymers, hexafluoroethylene/hexafluoropropylene/treated vinylidene fluoride, PEEK (polyetherether ketone), PEKK, PAEK, PEK, and aliphatic polyketones.

17. (previously presented) A method as claimed in claim 16, wherein said inner tube is made of THV.

18. (previously presented) A method as claimed in claim 16, wherein said inner tube is externally protected by at least one other sheath.

19. (previously presented) A method as claimed in claim 16, wherein the thickness of the inner tube ranges between 0.1 and 0.5 mm.

20. (previously presented) A method as claimed in claim 16, wherein the thickness of the inner tube ranges between 0.1 and 0.2 mm.

21. (previously presented) A method as claimed in claim 16, wherein the inside diameter of the inner tube ranges between 3 and 12 mm.

22. (previously presented) A method as claimed in claim 16, wherein the inside diameter of the inner tube ranges between 6 and 10 mm.

23. (previously presented) A method as claimed in claim 16, wherein said tubular line is several ten meters long.